








SHEET 1 OF 2

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449		ATTY. DOCKET NO. 21200-711		SERIAL NO. 09/684,742			
		APPLICANT David C. Gelvin, et al.					
		FILING DATE October 4, 2000		GROUP 2661			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	DATE	
<i>A</i>	5,732,074	3/24/98	Spaur, et al.	370	313	1/16/96	
<b>FOREIGN PATENT DOCUMENTS</b>							
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<i>A</i>	S. Natkunanathan, et al., "A Signal Search Engine for Wireless Integrated Network Sensors", ASFL Annual Symposium, March 2000, pgs. 1-4						
	Michael J. Dong, et al., "Low Power Signal Processing Architectures for Network Microsensors", 1997 International Symposium on Low Power Electronics and Design; Digest of Technical Papers (1997) pgs. 173-177.						
<i>A</i>	Tsung-Hsien Lin, et al., "CMOS Front End Components for Micropower RF Wireless Systems", Proceedings of the 1998 International Symposium on Low Power Electronics & Design, pp. 11-15, August 1998						
	G. Asada, et al., "Wireless Integrated Network Sensors: Low Power Systems on a Chip", Proceedings of the 1998 European Solid State Circuits Conference (ESSCIRC), pp. 1-8 The Hague, The Netherlands, September 22-24, 1998.						
<i>A</i>	Gregory J. Pottie, R&D Quarterly and Annual Status Report for AWAIRS, pp. 1-28; January 1, 1999-April 31, 1999						
	Gregory J. Pottie, et al., "Wireless Integrated Network Sensors: Towards Low Cost and Robust Self-Organizing Security Networks, SPIE Conference on Sensors, C3I, Information and Training Tech. for Law Enforcement, Boston, MA.; pp. 1-10; November 3-5, 1998						
EXAMINER <i>[Signature]</i>			DATE CONSIDERED <i>5/20/00</i>				

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<b>INFORMATION DISCLOSURE CITATION</b>  <b>PTO-1449</b>		<b>ATTY. DOCKET NO.</b> 21200-711		<b>SERIAL NO.</b> 09/684,742		<b>RECEIVED</b> APR 09 2001 Technology Center 2600	
		<b>APPLICANT</b> David C. Gelvin, et al.					
		<b>FILING DATE</b> October 4, 2000		<b>GROUP</b> 2661			
<b>U.S. PATENT DOCUMENTS</b>							
<b>EXAMINER'S INITIALS</b>	<b>PATENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>RECEIVED</b> APR 10 2001 Technology Center 2600	
<b>FOREIGN PATENT DOCUMENTS</b>							
<b>EXAMINER'S INITIALS</b>	<b>PATENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>	
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Loren P. Clare, et al., "Self-Organizing Distributed Sensor Networks", SPIE 13 <sup>th</sup> . Annual Symposium on Aerosense/Defense Sensing, Simulation and Controls, UGS Technologies and Applications Conference, Orlando, Florida; pp. 1-9; April 5-9, 1999.						
	J. Agre, et al., "Autoconfigurable Distributed Control Systems", Proceedings of the 2 <sup>nd</sup> . International Symposium on Autonomous Decentralized Systems (ISADS 95), Phoenix, Arizona; pp. 1-8; April 25-27, 1995						
	Jonathan R. Agre, et al., "Development Platform for Self-Organizing Wireless Sensor Networks", SPIE 13 <sup>th</sup> . Annual Symposium on Aerosense/Defense Sensing, Simulation and Controls, Unattended Ground Sensor Technologies and Applications Conference, Orlando, Florida; pp. 1-12; April 5-9, 1999.						
<b>EXAMINER</b> 				<b>DATE CONSIDERED</b> 5/20/07			

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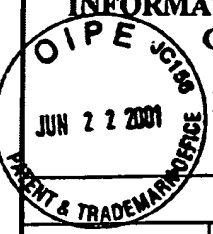
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		APPLICANT David C. Gelvin, et al.					
		FILING DATE 10/4/2000		GROUP 2661			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
<i>[initials]</i>	6,208,247	3/27/2001	Agre, et al.	340	539	8/18/98	
<i>[initials]</i>	4,520,674	6/4/85	Canada, et al.	73	660	11/14/83	
<i>[initials]</i>	4,649,524	3/10/87	Vance	367	13	8/22/83	
<i>[initials]</i>	4,812,820	3/14/89	Chatwin	340	518	7/23/86	
<i>[initials]</i>	4,855,713	8/8/89	Brunius	340	506	10/7/88	
<i>[initials]</i>	4,951,029	8/21/90	Severson	340	506	2/16/88	
<i>[initials]</i>	5,241,542	8/31/93	Natarajan, et al.	370	95.3	8/23/91	
<i>[initials]</i>	5,247,564	9/21/93	Zicker	379	40	10/24/90	
<i>[initials]</i>	5,295,154	3/15/94	Meier, et al.	375	1	5/3/93	
<i>[initials]</i>	5,428,636	6/27/95	Meier	375	202	5/7/93	
<i>[initials]</i>	5,475,687	12/12/95	Markkula, Jr., et al.	370	85.1	7/27/93	
<i>[initials]</i>	5,553,076	9/3/96	Behtash, et al.	370	95.3	5/2/94	
<i>[initials]</i>	5,659,195	8/19/97	Kaiser, et al.	257	415	6/8/95	
<b>FOREIGN PATENT DOCUMENTS</b>							
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<i>[initials]</i>	Ann Bhatnagar, et al., "Layer Net: A New Self-Organizing Network Protocol"; 1990 IEEE Military Communications Conference, Monterey, CA., September 30 thru October 3; pgs. 845-849.						
	Norman Abramson, "The Throughput of Packet Broadcasting Channels", IEEE Transactions on Communications, Vol. Com-25, No. 1, January 1977, pgs. 117-128.						
<i>[initials]</i>	C. David Young, "USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol", Milcom 96 Conference Proceedings, October 22-24, 1996, pgs. 235-239.						
	G. Asada, et al. "Low Power Wireless Communication and Signal Processing Circuits for Distributed Microsensors", Proceedings of 1997 IEEE International Symposium on Circuits and Systems; June 9-12, 1997, Hong Kong, pgs. 2817-2820.						
<i>[initials]</i>	K. Bult, et al. "Low Power Systems for Wireless Microsensors", 1996 International Symposium on Low Power Electronics and Design; pgs. 17-21.						
EXAMINER <i>[signature]</i>			DATE CONSIDERED 5/20/04				

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<b>INFORMATION DISCLOSURE CITATION</b> <b>PTO-1449</b> 		ATTY. DOCKET NO. 21200-711		SERIAL NO. 09/684,742			
		APPLICANT David C. Gelvin, et al.		JUN 26 2001			
		FILING DATE 10/4/2000		GROSS Technology Center 2600			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
<i>X</i>	5,726,911	3/10/98	Canada, et al.	364	550	8/22/96	
<i>X</i>	5,852,351	12/22/98	Canada, et al.	318	490	8/20/97	
<i>X</i>	5,854,994	12/29/98	Canada, et al.	702	56	8/23/96	
<i>X</i>	5,907,491	5/25/99	Canada, et al.	364	468.15	4/4/97	
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<i>X</i>	Anthony Ephremides, et al. "A Design Concept for Reliable Mobile Radio Networks with Frequency Hopping Signaling"; Proceedings of the IEEE, Vol. 75, No.1, January 1987; pgs. 56-73						
	K. Bult, et al., "Wireless Integrated Microsensors"; Solid-State Sensor and Actuator Workshop, Hilton Head South Carolina, June 3-6, 1996, pgs. 205-210.						
<i>A</i>	C. David Young, "A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol", Rockwell International Working Paper, October 25, 1995, pgs. 1-29.						
	Tsung-Hsien Lin, et al, "Wireless Integrated Network Sensors (WINS) for Tactical Information Systems", Rockwell Science Center, Thousand Oaks, January 1998, pgs. 1-6.						
<i>A</i>	Michael J. Dong, et al. "Low Power Signal Processing Architectures for Network Microsensors"; University of California, Los Angeles, ISLPED 97, International Symposium on Low Power Electronics and Design, January 1998, pgs. 1-5.						
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## INFORMATION DISCLOSURE CITATION

Form PTO-1449 (Modified)  
(Use several sheets if necessary)ATTY. DOCKET NO.  
37302.8011SERIAL NO.  
09/684,742

APPLICANT

Gelvin, *et al.*

FILING DATE

October 4, 2000

GROUP

2661

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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
A	5,745,759	04/28/98	Hayden and Burgener			
A	5,737,529	04/07/98	Dolin, Jr., <i>et al.</i>			
A	5,794,164	08/11/98	Beckert, <i>et al.</i>			
A	6,009,363	12/28/99	Beckert, <i>et al.</i>			
A	6,028,537	02/22/00	Suman, <i>et al.</i>			
A	6,144,905	11/07/00	Gannon			
A	6,145,082	11/07/00	Gannon, <i>et al.</i>			
A	6,175,789	01/16/01	Beckert, <i>et al.</i>			
A	6,181,994	01/30/01	Colson and Alewine			
A	6,185,491	02/06/01	Gray and Chu			
A	6,202,008	03/13/01	Beckert, <i>et al.</i>			
A	6,246,935	06/12/01	Buckley			

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## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation
0814393	12/29/97	Europe			
19743137	04/01/99	Germany			
9917477	04/08/99	PCT			
2,245,963	2/26/00	Canada			
0054237	09/14/00	PCT			

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A	Asada, G., <i>et al.</i> , "Wireless Integrated Network Sensors (WINS)" PROCEEDINGS OF THE SPIE, SPIE, Bellingham, VA 3673:11-18 (1999).
A	Lohle, H., <i>et al.</i> , "Bordermaster 2000- An Advanced Border Surveillance System", ELECTRICAL COMMUNICATION, Alcatel. Brussels, BE 153-158 (1994).

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PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. SENS.P011	APPLICATION NUMBER 09/684,742
	APPLICANT Gelvin, et al.	
	FILING DATE October 4, 2000	GROUP ART UNIT 2661

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	6,028,857	02/22/2000	Poor	370	351	07/25/97

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JAN 10 2003

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<input checked="" type="checkbox"/>	K. Sohrabi, J. Gao, V. Ailawadhi, G. Pottie, "A Self-Organizing Wireless Sensor Network," Proc. 37 <sup>th</sup> Allerton Conf. On Comm., Control, and Computing, Monticello, IL, Sept. 1999.
<input checked="" type="checkbox"/>	D.J. Baker and A. Ephremides, "The Architectural Organization of a Mobile Radio Network via a Distributed Algorithm," IEEE Transactions on Communications, Vol. Com-29, No. 11, Nov. 1981, pp. 1694-1701.
<input checked="" type="checkbox"/>	J. Elson, L. Girod, and D. Estrin, "Fine-Grained Network Time Synchronization Using Reference Broadcasts," submitted to SIGCOMM 2002.
<input checked="" type="checkbox"/>	W. Merrill, K. Sohrabi, L. Girod, J. Elson, F. Newberg, and W. Kaiser, "Open Standard Development Platforms for Distributed Sensor Networks," Aerosense Conference, Orlando, FL, April 2002.
<input checked="" type="checkbox"/>	M. Gerla and J. Tzu-Chieh Tsai, "Multichuster, Mobile, Multimedia Radio Network," ACM-Baltzer Journal of Wireless Networks, Vol. 1, No. 3, pp.255-265, 1995.
<input checked="" type="checkbox"/>	C. R. Lin and M. Gerla, "Adaptive Clustering for Mobile Wireless Networks."


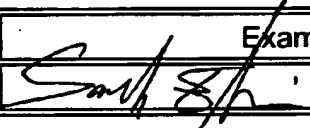
5/20/04



# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Method for internetworked hybrid wireless integrated network sensors (WINS)						
<div>Application Number: 09/684742 </div> <div>Confirmation Number: 1719</div> <div>First Named Applicant: David Gelvin</div> <div>Attorney Docket Number: SENS.P011</div> <div>Art Unit: 2661</div> <div>Search string: ( 5760530 ).pn.</div> <div><b>RECEIVED</b> DEC 1 5 2003 Technology Center 2100</div>							
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	5760530	1998-06-02	Kolesar			
Signature							
Examiner Name				Date			
				5/22/04			